

NGT 2-1001
SCIENTIFIC-TECHNICAL AND BUSINESS
CAREERS TRAINING GRANT

PROGRESS REPORT
JULY 1, 2000-JUNE 30 2001

AND

NGT 2-2001
SUMMARY REPORT
JULY 1, 1996-JUNE 30, 2001

Principal Investigator:
Report Date:

Mary P. Conway
August 22, 2001

Final Report
AUG 24 2001
CRASI

July 1, 2000-June 31, 2001

The 1996 renewal of the NGT-2-1001 grant included three (3) objectives and expected outcomes. The information below highlights the results and progress to address the grant objectives and outcomes for the time period of July 1, 2000 through June 30, 2001.

Objective Number One indicated that the internship staff would annually recruit and place at least **90** community college students in internship positions related to their college majors.

- **Result:** Internship enrollments for the Summer, Fall, Winter and Spring quarters of 2000-2001 show an average enrollment of **121** students per quarter. This number includes (13) interns sponsored by Ames contractors.

Internship Program Marketing and Recruitment Activity Highlights:

- Staffed tables at Foothill, De Anza and Canada College job fairs to promote the program and recruit students.
- Program staff made presentations in more than 60 college classes each quarter to recruit students and tell them about internship positions at NASA/Ames.
- Principal investigator conducted briefing sessions with NASA personnel in codes AT, AP, AS and FM to promote the program with division personnel and invite them to sponsor interns.
- The principal investigator conducted briefing sessions at five Foothill College division meetings to promote and describe the program with division personnel and encourage them to recommend students to the program.
- Program personnel staffed a table in the Ames cafeteria to promote the program with NASA personnel to encourage them to consider sponsoring an intern.
- A program 30-year anniversary event was held on November 2, 2000. More than 325 people attended the function including current and former interns, NASA senior management, FCCD Board Members and administrators, United States, State and local political representatives.

Objective Number Two outlined a goal to recruit **40%** minority students.

- **Result:** Enrollment data of NASA and Ames contractor sponsored interns during this reporting period shows a **55 %** enrollment of minority students.

Objective Number Two also outlined a recruitment goal to place at least **50%** of our female applicants in scientific-technical positions.

- **Result:** Enrollments during this reporting period indicate that **60%** of female students participating in the program during the reporting period were interning in a scientific-technical position.

Objective Number Three proposed working with college administrators and faculty to keep them informed about the mission and roles of NASA/Ames and to promote course and program development related to Ames's mission responsibilities and goals.

Internship Program Highlights Related to Informing College Personnel About NASA/Ames Mission Responsibilities and Goals:

- Collaborated with the Office of Development and Communication in arranging for 40 members of the De Anza College Biology and Health Sciences Division to hear a presentation by DX personnel about the mission and goals of Ames. The Faculty and staff also toured the 20G Centrifuge, heard presentations about various Sensors 2000 Projects, Human Factors and Technology Research, and were given a demonstration of the Snakebot and the K-9 Rover. The tour concluded with a presentation by Dr. David Morrison. Dr. Morrison discussed the highlights of research efforts conducted in his directorate. During a hosted lunch, the Biology division staff also heard presentations by FCCD interns describing the work they were doing at Ames in positions related to biological science.
- The principal investigator participated in several meetings with personnel representing NASA, senior management from the FCCD, SJSU and two of the local high school districts. The purpose of the meetings was to discuss the NASA Research Park Education Collaborative and what classes and programs the collaborative participants would offer to support science and information technology.
- In all promotional efforts, including class presentations, Internship Program Staff, regularly share information with college instructors and students about new internship opportunities available at Ames. These internship positions often relate to the mission and research efforts at Ames.

EXPECTED OUTCOMES

Expected Outcome 1: The number of minority students participating in the program and the number of females in scientific-technical positions will increase.

➤ **Result:** As noted above, enrollments for this reporting period (July 1, 2000-June 30, 2001) show an enrollment of (55)% minority students, and a (60)% female enrollment in scientific-technical positions.

Expected Outcome 2: Within one year of completing the program, 90% of the graduates will be employed in a position related to their internship or continuing to advance their education. Internship program records indicate that (184) students exited the program between 04/1/99 and 6/30/2000.

NOTE: The report submitted for the previous year covered the timeframe of 4/1/98-3/31/99

➤ **Results¹**

- (71) Found employment related to their NASA/Ames internship
 - (44) Found full-time employment
 - (2) NASA/Ames
 - (25) NASA/Ames Contractors
 - (17) Private Industry
 - (27) Found part-time employment
 - (5) NASA/Ames
 - (10) NASA/Ames Contractors
 - (12) Private Industry
- (70) Transferred to a four year college or university
- (15) Continued full-time with their community college course work
- (50) Continued part-time with their community college course work
- (20) Status unknown

¹ Some students counted twice because of dual work and college status. In addition, not all students complete our exit paper work, indicate educational plans or tell us when they have found employment.

Expected Outcome 3: NASA/Ames will have access to a pool of potential employees familiar with the organization. Mathematics, engineering, and science students will be motivated to return to Ames after completing an advanced degree, and business students will consider government service as a career.

➤ **•Result:** Ames has not been in a position to hire large numbers of civil servants over the last several years. However, despite external factors, the internship program has continued to serve as a pool of potential employees, with some students hired by NASA and others by Ames contractors. Follow-up studies on students exiting the program between 4/01/99 through 6/30/00 indicate that:

(7) Students were hired as civil servants

(2) As full-time employees and

(5) Part-time employee.

(35) Students were hired as NASA/Ames contractors

(25) As full-time employees and

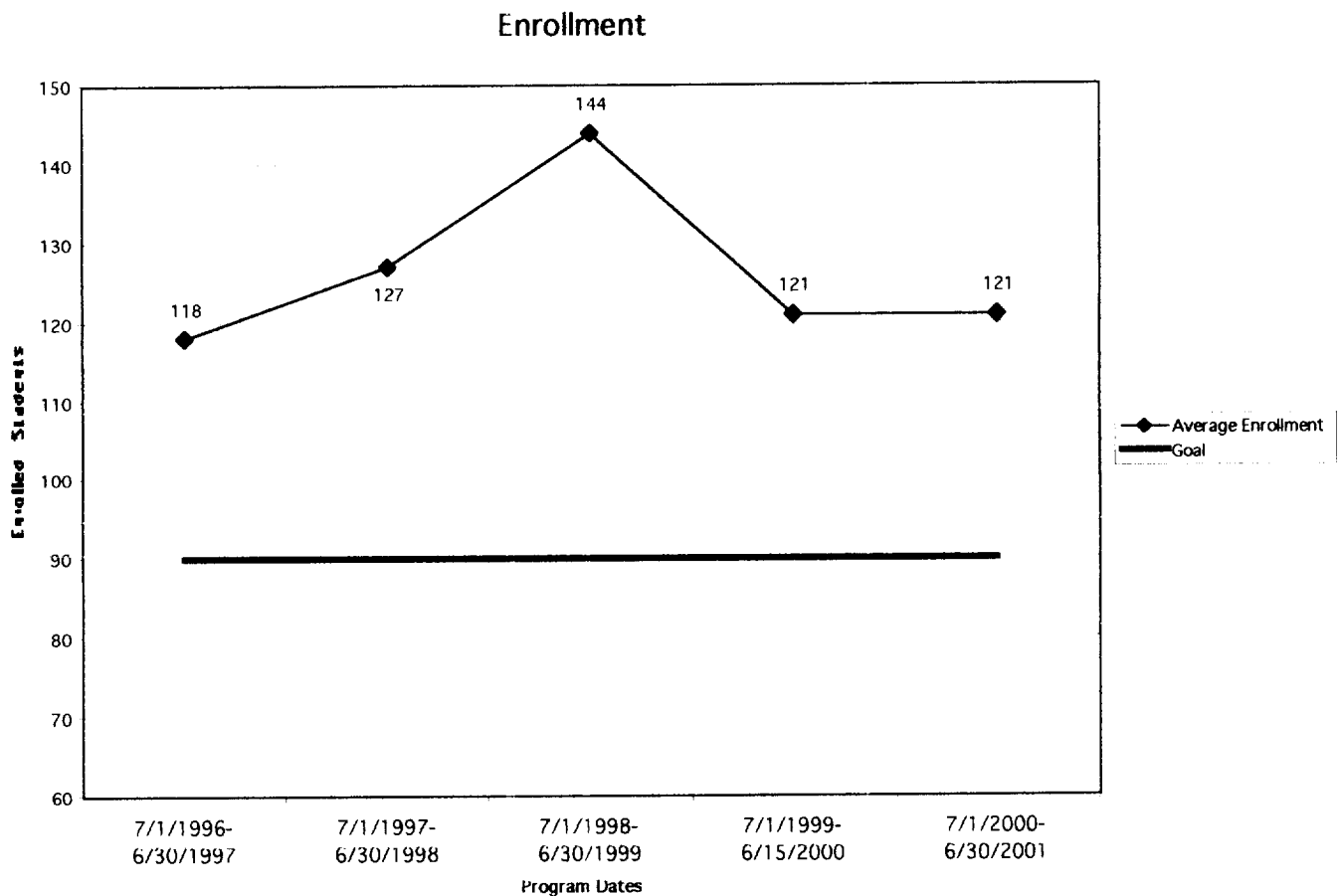
(10) As part-time employees.

SUMMARIZING ACTIVITY REPORT NGT 2-1001

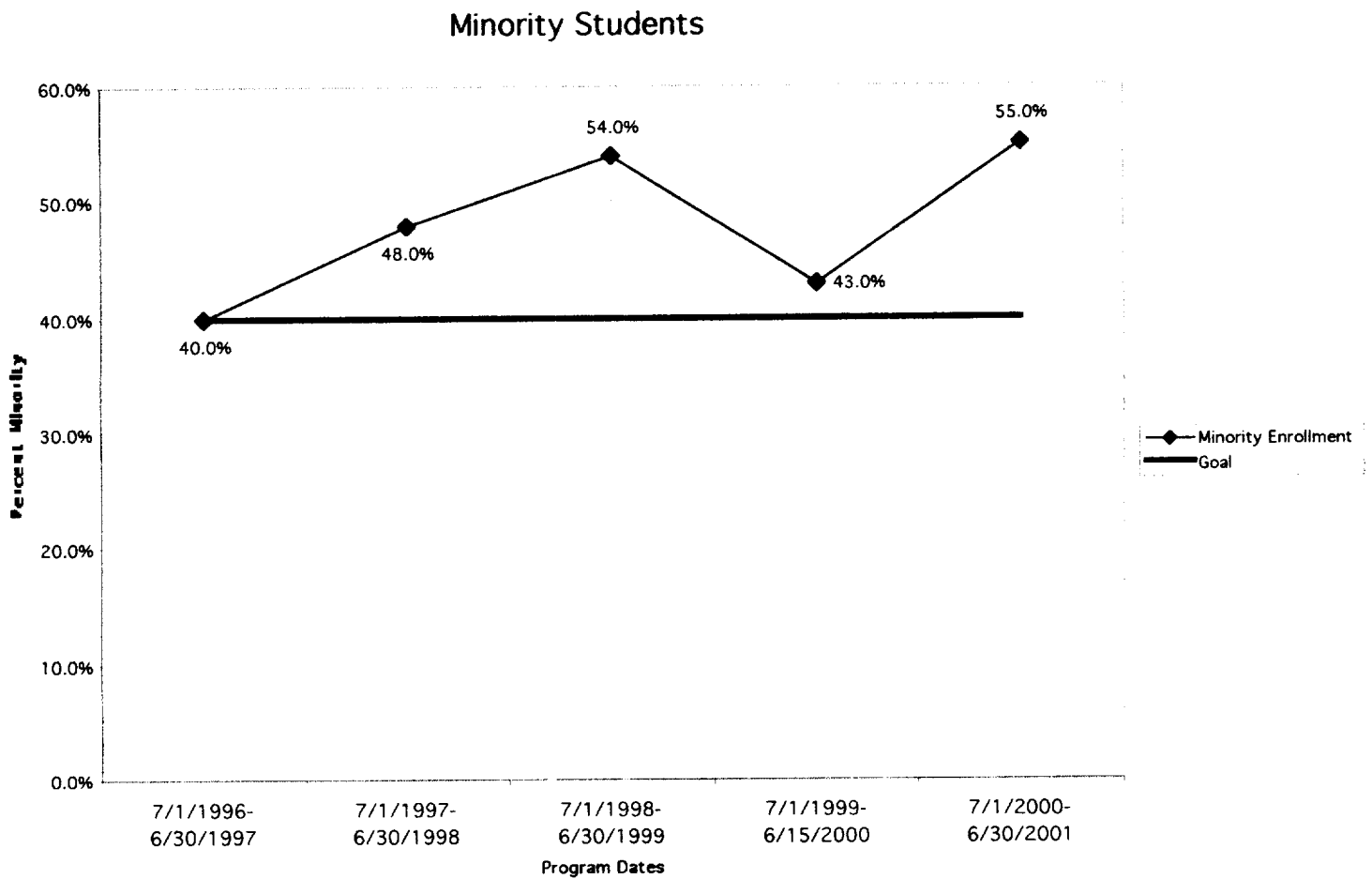
1996-2001

The 1996 renewal grant included three (3) objectives and expected outcomes. Annual progress reports were prepared each year and sent to the NASA/Ames Grants Officer and the assigned technical officer for the NGT 2-1001 grant. The information listed below summarizes the grant outcomes during the 1996-2001 time period.

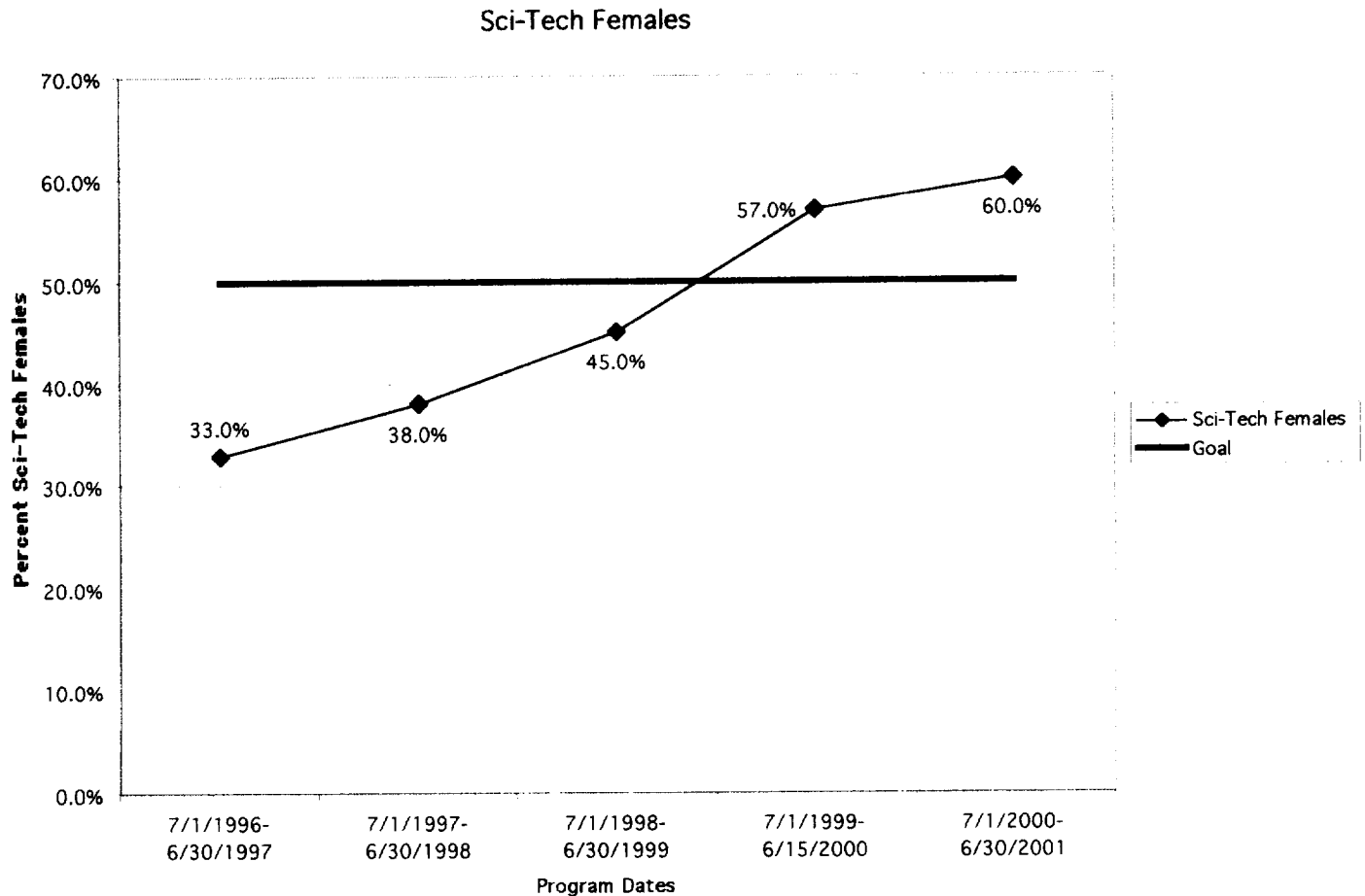
Objective Number 1 indicated that the internship staff would annually recruit and place at least (90) community college students in internship positions related to their college majors. The chart below highlights the average intern enrollment over the 1996-2001 grant period.



Objective Number 2 and Expected Outcome Number 1 outlined a goal to recruit 40% minority students. The chart below identifies the number of minority students participating in the program during the grant years of 1996-2001.

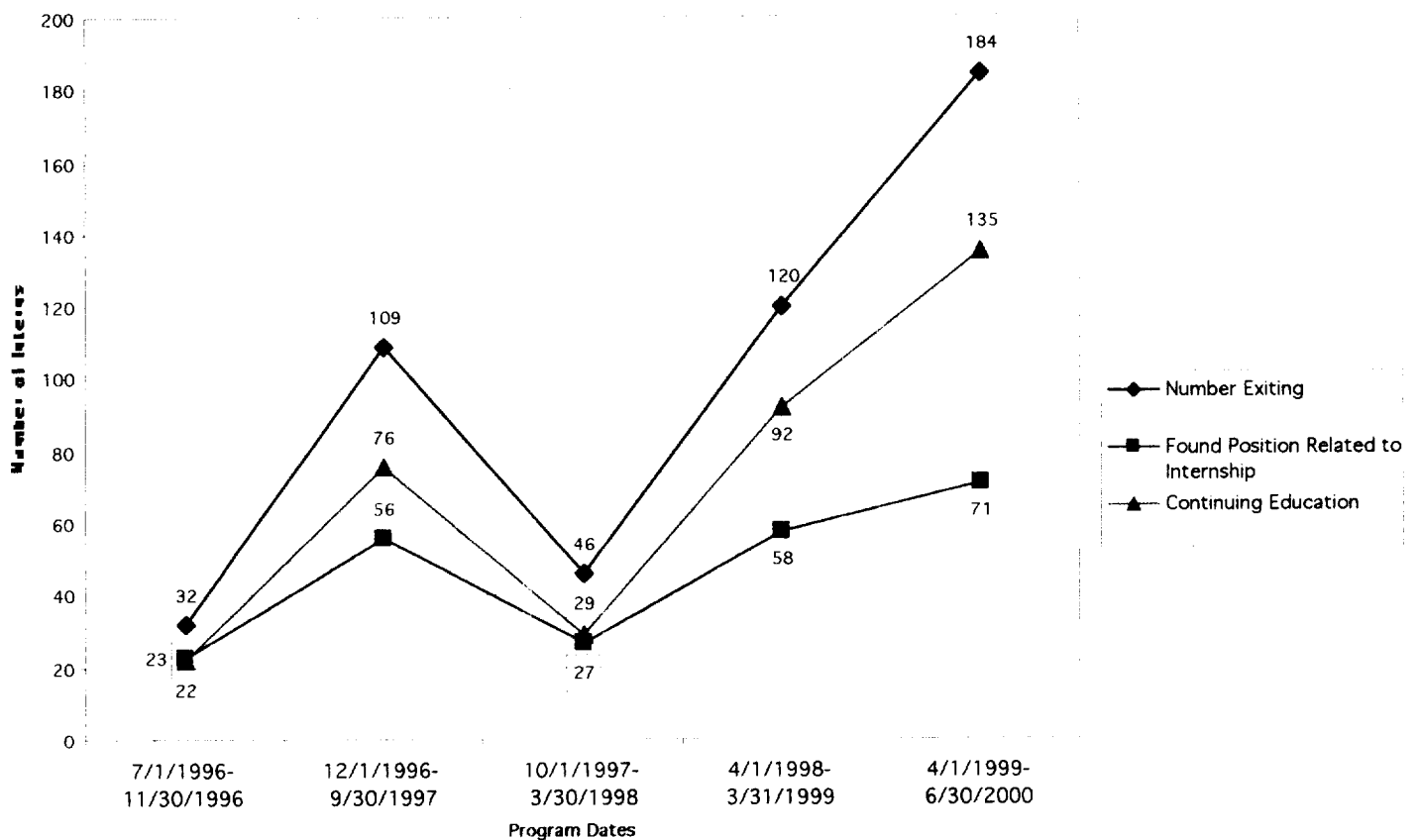


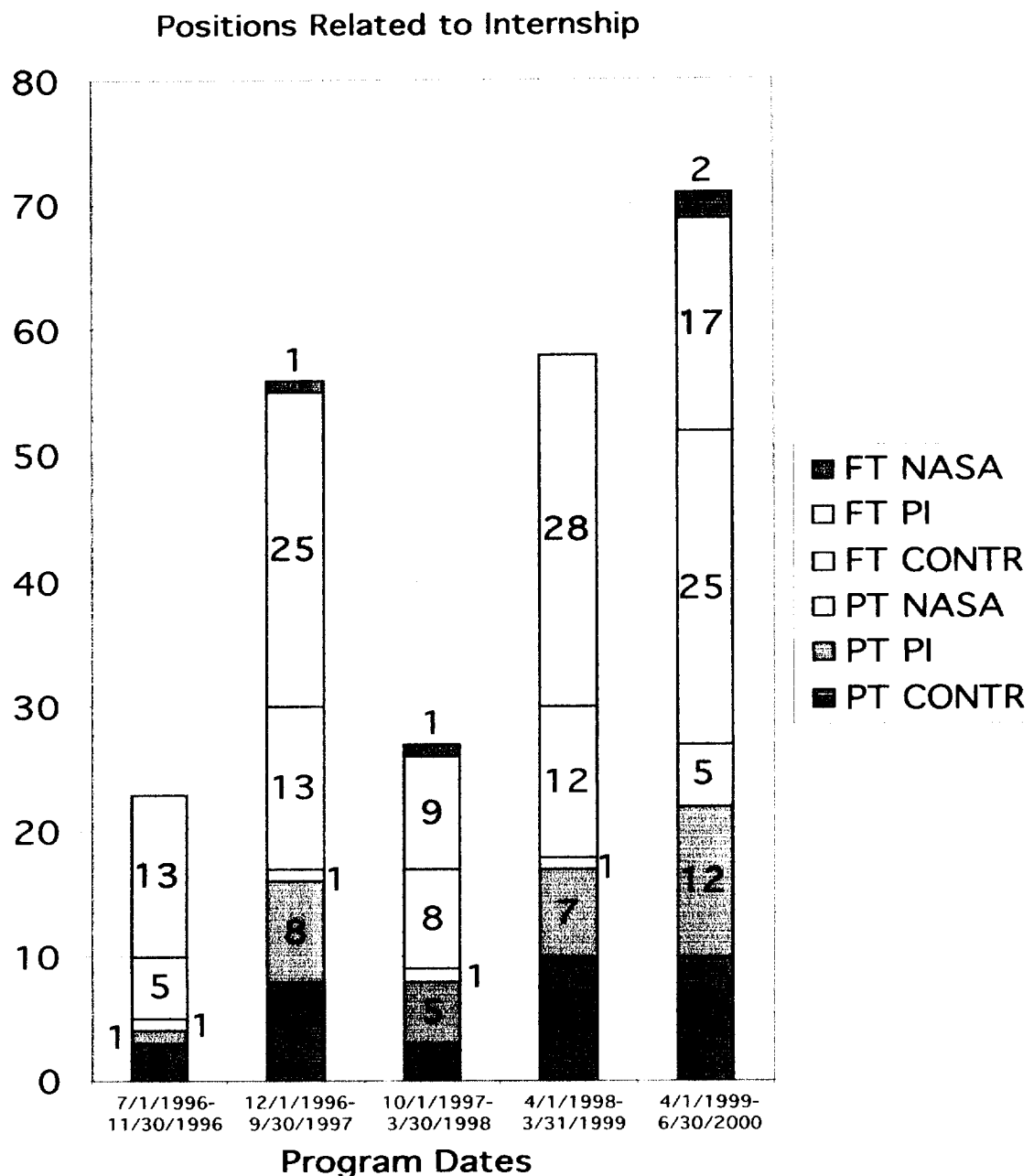
Objective Number 2 and Expected Outcome Number 1 also outlined a recruitment goal to place at least 50% of our female applicants in scientific-technical positions. The placement results of this objective are shown below.



Expected Outcome 2 stated that within one year of completing the program, 90% of the graduates would be employed in a position related to their internship or continuing to advance their education. The graph below highlights the related position and/or continuing education status of interns one year after they exited the program.

Employment Related to Internship and/or Continuing Their Education



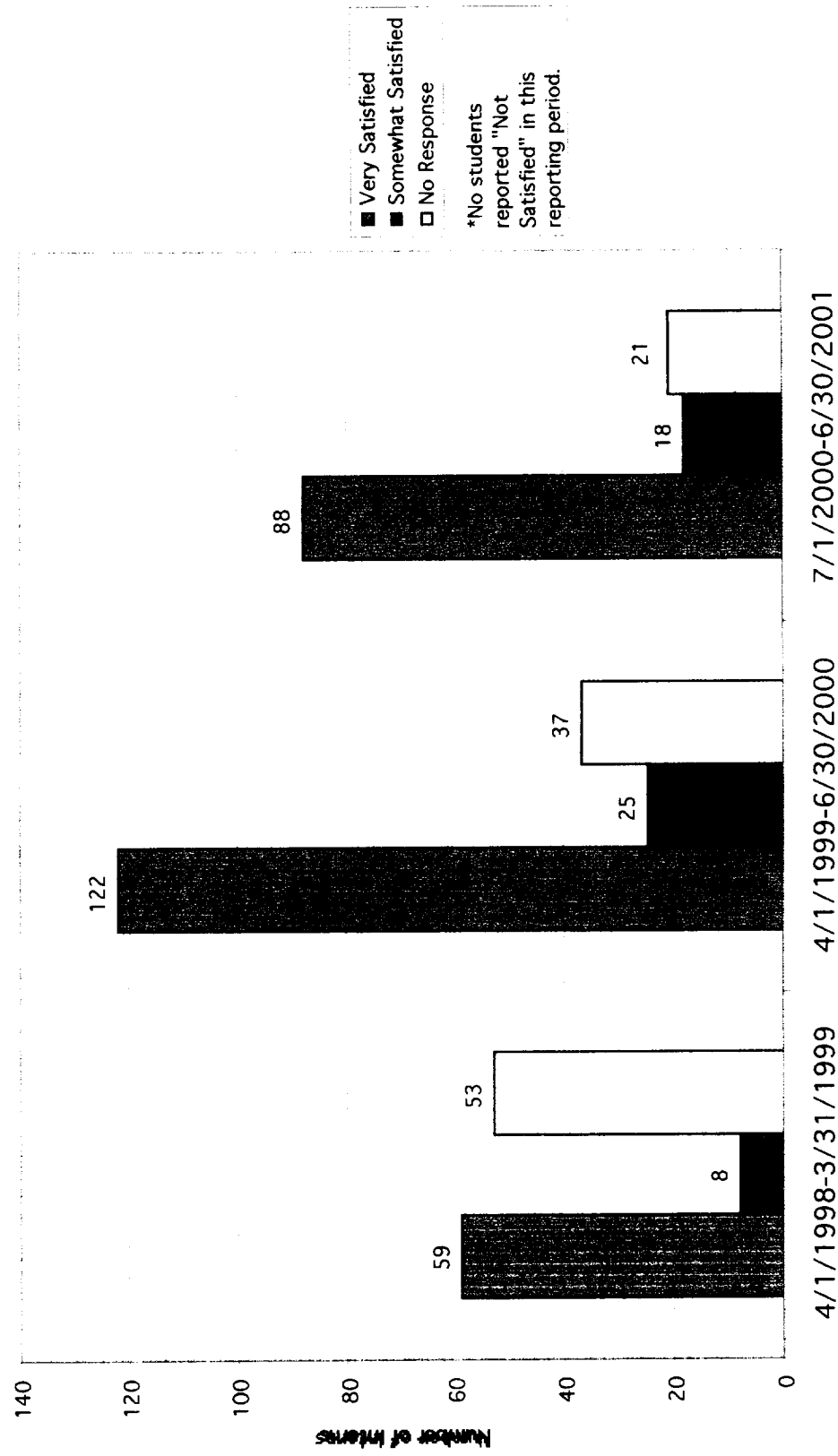


Expected Outcome 3: stated that NASA/Ames would have access to a pool of potential employees familiar with the organization. Ames has not been in a position to hire large numbers of civil servants over the last several years. However, despite external factors, the internship program has continued to be an excellent source of well-qualified employees. The chart above identifies the number of students hired by NASA, NASA/Ames contractors and the number of students hired by private companies.

Additional Information

In 1998 we began collecting information about whether the students thought their internship experience was worthwhile. The chart shown below highlights the years and months the data was collected and summarizes intern satisfaction with the program.

Intern Satisfaction with Program



In 1998, we also began to collect data regarding whether the student's internship experience helped them achieve their education goal. The chart below highlights the program dates and the number of interns who thought their internship experience helped them achieve their education and or career goal.

Intern Goal Achievement

